

Why a Year Is All Too Short for a Soldier's Training

Regular Army Officer Shows Futility of the "Million Men Over Night" Preparedness

By MAJOR WILLIAM WALLACE, U. S. A.

MILITARY training is a term which in vogue to-day. Comparatively few of our people know in what such training consists or how absolutely necessary it is to the conduct of modern war.

The antiquated idea that any man in a uniform with a gun is a soldier is distressingly prevalent. The fact is that such a man without at least one year's solid and strict apprenticeship to the skilled trade of arms is likely to be more of a drawback to his comrades than a menace to any creditable foe.

It is asked if a year is necessary for this training. It is all too short in which to learn and have confirmed the multitudinous details in which a trained soldier must be skilled. However, young Americans who have undergone the mental training of the average public school and who enter upon the duty earnestly and willingly will master the rudiments of soldiering in that time, provided they are properly put to it.

To show the nature of the training necessary we will suppose that one hundred thousand young men of the above description had volunteered and assembled for military instruction on one of our great Indian or forest reservations in Arizona or New Mexico, where outdoor work is possible the year round, and ask:

What course would they pursue? Roughly this:

The first month would be consumed in the recruit's finding himself—a process having many of the aspects of losing himself. He must be divested of every ounce of superfluous baggage and be fitted and provided with uniform and equipment. An uncomfortable pack or pair of shoes are soul destroying afflictions, where if properly adjusted they soon become matters of small concern.

The care of himself, of kit and equipment; when, where and how these are obtained; their cost, his responsibility for them, and the explanation for various inspections are all matters requiring time to learn. Then there are the Articles of War, the application of military justice, his relation to the army, the Government and to civildom to be learned.

There are also the various fatigues (work required other than that which is strictly military) to be explained and performed. From the start setting up exercises and drills without arms must take place and regularity and precision be insisted upon.

The second month the recruit should be given his rifle and the handling and care of it taught. Squad, platoon and company close order drills, calisthenics, swimming, riding, etc., would fill each day with the physical instruction necessary. The study of the vital parts of army regulations, the duties of sentinels on various guards, the carrying and correct delivery of orders and lectures on hygiene and sanitation would consume the rest of the time.

The third month would advance into the battalion and regimental close order drills and ceremonies, the physical exercises continued and first aid, signposting and how to cook for himself would be taken up. Lectures on simple tactics and the relation of the various branches of the service to each other should be given here, and, also, preparatory to the coming march, talks on camp expedients, marching and the use of field ration.

Altogether for the uninitiated no small three months work. For the individual, if not the hardest, they are the most trying.

Homeliness usually sets in, rendering mind and body sensitive and irritable, and, though the ill he is undergoing are mostly imaginary, they are to him none the less real for being so. For this reason these months should be spent in simple barracks and ample comforts provided. Also such barracks would prevent much of the disease usually attendant upon an abrupt change from home to camp life.

A study of our concentration camps during the Spanish war shows that no effort should be spared to make the transition from civil to military employment as gradual as possible. Three months in army barracks, with an occasional camp, would prevent all sickness, but will prevent much of it and lessen its severity.

The fourth month would be spent in camp and all that goes to make such life not only endurable but enjoyable put into effect. Extended order drills should be the rule, with the study and practice of patrolling, scouting, road sketching and general reconnaissance. Short marches without pack should be frequent and lectures and examples given of simple entrenchments, the construction of obstacles, demolitions, the effects of rifle and cannon fire, the knowledge and use of cover and the elements that enter into successful assaults.

The fifth month should have longer marches, light packs and frequent changes of camp site. Simple tactical problems should be solved, with lectures and practice in advance and rear guard actions, outposts and convoy operations. The soldier must know and be familiar with the nature of the duty he is performing in order to act intelligently; for instance, what would be proper action as the point of an advance guard might be suicidal with a convoy, and vice versa.

The sixth month's operations should be by brigade and then march and problems extended into a terrain of hills, defiles and rivers. Map making, bridging and construction of temporary and permanent intrenchments should be taught and put into effect through simple problems of offence and defence between brigades.

The seventh and eighth months should be devoted to the division, which is the important tactical unit upon which battles to-day depend. Hard and tedious preliminary training of all of its components is necessary in order that the division may start unhandicapped.

Here, in war, there is little or no time for individual training. Men, squads, companies, battalions, regiments and brigades must know their

business, or confusion reigns and order—that primary requisite of human as well as mechanical machines—falls and ruin results. Moreover, it is in division exercises that officers receive the experience to fit them for actual war. Here their commands become themselves, and they must shoulder the blame for all deficiencies in them, and in the life and death game of war censure for inefficiency is not likely to be long delayed or particularly pleasant when it comes.

After a few division problems intelligent officers and men plainly see that they must keep themselves up to the top notch of efficiency if they are not only to win the cause but save themselves severe and needless suffering.

It is here also that officers have the opportunity to put into constant practice their absorptions of the classroom, and weighing well their knowledge, to separate the essential from the mass of non-essential. In the military art practice is the only true knowledge producer.

Discipline is not instinctive, but rather a matter of habit, easily acquired and falling lightly on those who are amenable, but nettlesome often beyond endurance to the egotistical and the vanity stricken. From the very first in the exactions of promptitude, precision and close attention it has been instilled with gradually increasing rigor until in the heaving and straining of that great human mass—the division—it finally becomes confirmed.

Discipline is absolutely indispensable to order, and no matter how intelligent or individually well trained a man may be, as a soldier he is worse than useless—a danger—until he has learned to obey unhesitatingly and without question the orders of his superiors. The superior is responsible, the subordinate isn't, and in division superiors are very likely to have that fact driven home.

The study and practice of shooting firing and general familiarity with his weapon. Further than that it is of small avail in battle firing.

Here the target is rarely visible and the range problematical and to be figured by range finders and communicated to the firing line by signals. Results are obtained here, as everywhere else in militarism, only by strict obedience—by discipline—and this is one of the main reasons for placing this part of the training last.

Untrained men will not obey instinctively in the excitement of even a peace field firing problem—not wilfully disobey, but they will not have acquired the habit of attention so essential to intelligent and concerted action. Moreover, at first they would not have been familiar with the signals for movements and firing, and the voice cannot be heard.

As all cannot shoot at once much time during this month can be devoted to reviews of the subjects they have learned and imparting many things to the men which the curriculum of a soldier should include, the rules of warfare, for instance.

In the twelfth and last month examinations should be held which, with due consideration of records made during the year, should determine the standing of every member of the army.

After this the bars should be let down and civilians welcomed and encouraged.

The division problems would call into play all the previous training of all the troops. Time off should be devoted to non-commissioned officers' schools for the purpose of familiarizing large classes with army administration, paper work, etc. Not a moment should be lost.

The sixth month should see the command divided into opposing armies of some 50,000 each, operating against each other with all the particularities of actual war in an area large enough to make a small theatre of war, with bases, lines of communication, screens, using heavy and horse artillery, aircraft, pontoons, the wonderful signalling apparatus and the many other devices essential to modern warfare, and which can only be brought into play with great bodies of troops and whose skilled handling can only be perfected in time of peace.

This would be the hard month of forced marches, sleepless nights, of hunger and thirst and dirt, but altogether the most important and interesting, and with the time which peace practice allows for corrections, before it is over the armies should move with clocklike precision. The lives and money this precision would save us in war would compensate the cost, trouble and temporary hardships to attain it in peace a thousand times over.

The study and practice of shooting firing and general familiarity with his weapon. Further than that it is of small avail in battle firing.

Here the target is rarely visible and the range problematical and to be figured by range finders and communicated to the firing line by signals. Results are obtained here, as everywhere else in militarism, only by strict obedience—by discipline—and this is one of the main reasons for placing this part of the training last.

Untrained men will not obey instinctively in the excitement of even a peace field firing problem—not wilfully disobey, but they will not have acquired the habit of attention so essential to intelligent and concerted action. Moreover, at first they would not have been familiar with the signals for movements and firing, and the voice cannot be heard.

As all cannot shoot at once much time during this month can be devoted to reviews of the subjects they have learned and imparting many things to the men which the curriculum of a soldier should include, the rules of warfare, for instance.

In the twelfth and last month examinations should be held which, with due consideration of records made during the year, should determine the standing of every member of the army.

After this the bars should be let down and civilians welcomed and encouraged.

The division problems would call into play all the previous training of all the troops. Time off should be devoted to non-commissioned officers' schools for the purpose of familiarizing large classes with army administration, paper work, etc. Not a moment should be lost.

The sixth month should see the command divided into opposing armies of some 50,000 each, operating against each other with all the particularities of actual war in an area large enough to make a small theatre of war, with bases, lines of communication, screens, using heavy and horse artillery, aircraft, pontoons, the wonderful signalling apparatus and the many other devices essential to modern warfare, and which can only be brought into play with great bodies of troops and whose skilled handling can only be perfected in time of peace.

This would be the hard month of forced marches, sleepless nights, of hunger and thirst and dirt, but altogether the most important and interesting, and with the time which peace practice allows for corrections, before it is over the armies should move with clocklike precision. The lives and money this precision would save us in war would compensate the cost, trouble and temporary hardships to attain it in peace a thousand times over.

The study and practice of shooting firing and general familiarity with his weapon. Further than that it is of small avail in battle firing.

Here the target is rarely visible and the range problematical and to be figured by range finders and communicated to the firing line by signals. Results are obtained here, as everywhere else in militarism, only by strict obedience—by discipline—and this is one of the main reasons for placing this part of the training last.

Untrained men will not obey instinctively in the excitement of even a peace field firing problem—not wilfully disobey, but they will not have acquired the habit of attention so essential to intelligent and concerted action. Moreover, at first they would not have been familiar with the signals for movements and firing, and the voice cannot be heard.

As all cannot shoot at once much time during this month can be devoted to reviews of the subjects they have learned and imparting many things to the men which the curriculum of a soldier should include, the rules of warfare, for instance.

In the twelfth and last month examinations should be held which, with due consideration of records made during the year, should determine the standing of every member of the army.

After this the bars should be let down and civilians welcomed and encouraged.

The division problems would call into play all the previous training of all the troops. Time off should be devoted to non-commissioned officers' schools for the purpose of familiarizing large classes with army administration, paper work, etc. Not a moment should be lost.

The sixth month should see the command divided into opposing armies of some 50,000 each, operating against each other with all the particularities of actual war in an area large enough to make a small theatre of war, with bases, lines of communication, screens, using heavy and horse artillery, aircraft, pontoons, the wonderful signalling apparatus and the many other devices essential to modern warfare, and which can only be brought into play with great bodies of troops and whose skilled handling can only be perfected in time of peace.

This would be the hard month of forced marches, sleepless nights, of hunger and thirst and dirt, but altogether the most important and interesting, and with the time which peace practice allows for corrections, before it is over the armies should move with clocklike precision. The lives and money this precision would save us in war would compensate the cost, trouble and temporary hardships to attain it in peace a thousand times over.

The study and practice of shooting firing and general familiarity with his weapon. Further than that it is of small avail in battle firing.

Here the target is rarely visible and the range problematical and to be figured by range finders and communicated to the firing line by signals. Results are obtained here, as everywhere else in militarism, only by strict obedience—by discipline—and this is one of the main reasons for placing this part of the training last.

Untrained men will not obey instinctively in the excitement of even a peace field firing problem—not wilfully disobey, but they will not have acquired the habit of attention so essential to intelligent and concerted action. Moreover, at first they would not have been familiar with the signals for movements and firing, and the voice cannot be heard.

THE SUN, SUNDAY, DECEMBER 12, 1915.

Organizing the Railroads for National Defence

Gen. Leonard Wood Outlines Important Part They Play in the Repelling of Invasion

GEN. LEONARD WOOD spoke before the Railroad Club of this city a short while ago upon the part the railways of the country might have to play should war be imminent. He addressed a body of men peculiarly fitted to grasp the subject from an administrative point of view, but the public at large has no knowledge of this exchange of expert opinion. This article is intended to enlighten the layman.

"Organizing our railroads for possible military service: what do I think about it?" Gen. Wood began. "I look upon such a move as essential to our national well-being.

"While I can't discuss this question with a view to any special application, still, as a general proposition, we all know that the organization of our railroads, or, better, making them ready for mobilization, is one of the most important contributions to national defence.

"The veriest layman knows that only by means of our railroads would it be possible to despatch promptly and to move successfully a considerable body of troops. Not only this, but our capacity to meet a military emergency would of necessity hinge in the first place upon celerity of action.

"The vast area of our country, our long coast lines, all make it most important that our use of the railroads should be upon carefully thought out plans. This includes many a little line which runs to some unimportant place commercially, but important nevertheless from a military standpoint. As C. H. Markham, president of the Illinois Central Railroad, has recently said: 'Protection to be effective must take into account not only accustomed gateways but isolated localities. Branch lines become

action arrives. For this new service at his accustomed post he will cooperate with the army authorities, carrying out what he knows best the things needed to military ends.

But this cooperation must go further than that of managing existing trunk lines. The authorities must be in a position to build, repair and operate possibly new roads. Lines where there are only single tracks now may have to be doubled or existing routes otherwise amplified so that trains may be rushed to the front and the relatively empty cars be hastened back to the rear or base of supply.

There must be sidings where cars can be run for unloading without interfering with continuous traffic, and these expansions may be called for at a out of the way points simply because the enemy may try to take us on the flank instead of attacking at once his ultimate objective—a large seaport. It was just this that Mr. Markham meant when he said 'the fingers are as important as the arm.' Now we come to an organization of railroad reserves.

As fine and as efficient as the Engineer Corps of the army, these highly trained men are called upon to do a class of work quite apart from that of railroading. Therefore it is necessary to supplement this corps in time of need by a reserve of men skilled in railroad work of every sort. These civilian specialists of to-day would become part of a definite organization upon the outbreak of war and every field army would need a certain number of them.

Because of their familiarity with railroad construction, bridge building and all manner of repair work, they would know best how to utilize such materials as might be immediately available. The problem would not be alone that of administering or operating well appointed lines. The task would be that of keeping up existing routes laboring under the stress of excessive service as well as the reopening of lines possibly damaged by a foe.

And this leads to the consideration of that form of defence which must involve aggressive operations. For instance, if we should be obliged to go into a foreign country the undertaking for us there would probably be akin to the difficulties we would interpose here to the advance of an enemy. Besides having at hand a force of railroad operators and builders we should have accurate knowledge beforehand of the railroads of the enemy country and their condition, so that we could bring up the necessary materials for replacement or repair with the least possible delay. What stores of railroad equipment are at once in hand, and where? On looking these at what point can they be produced and rushed to the front in the shortest time? These are questions that must, as far as possible, be anticipated.

As has been said, Gen. Wood was not permitted to give any specific instances, but not long ago an essay appeared in the *Journal of the Military Service Institution* which is well worth quoting from now. In that article Brig-Gen. Tasker H. Hays, U. S. A., considered the question of mobilizing the railroads and cited some concrete examples of what has actually happened here in time of peace when trying to transport a small military force destined for expeditionary service. He said:

"In California the department of order received orders during the night to take two regiments of infantry to San Diego. The country is a vast, open plain, with no natural barriers, and the railroads are few and far between. The necessary transportation for the regiment and still longer for the order and it required from three to four days to move the two regiments a distance of less than 500 miles.

"And there is food for grave reflection in this. We often speak of throwing that our favorite word, and of that frontier threatened with sudden danger. We can see the position of the blood for only an instant without destroying the life of the organism; and the railroads are the veins and arteries of the nation. They are none of them military, but it is none of them has been constructed with a secondary view to commerce and a primary one to military requirements.

"I do not think I state the case too strongly when I say that the military authorities, carrying out what he knows best the things needed to military ends.

But this cooperation must go further than that of managing existing trunk lines. The authorities must be in a position to build, repair and operate possibly new roads. Lines where there are only single tracks now may have to be doubled or existing routes otherwise amplified so that trains may be rushed to the front and the relatively empty cars be hastened back to the rear or base of supply.

There must be sidings where cars can be run for unloading without interfering with continuous traffic, and these expansions may be called for at a out of the way points simply because the enemy may try to take us on the flank instead of attacking at once his ultimate objective—a large seaport. It was just this that Mr. Markham meant when he said 'the fingers are as important as the arm.' Now we come to an organization of railroad reserves.

As fine and as efficient as the Engineer Corps of the army, these highly trained men are called upon to do a class of work quite apart from that of railroading. Therefore it is necessary to supplement this corps in time of need by a reserve of men skilled in railroad work of every sort. These civilian specialists of to-day would become part of a definite organization upon the outbreak of war and every field army would need a certain number of them.



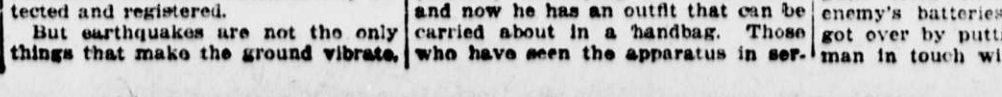
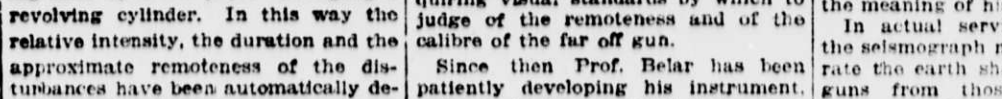
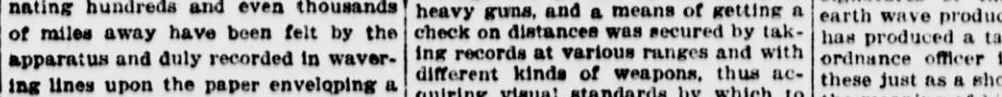
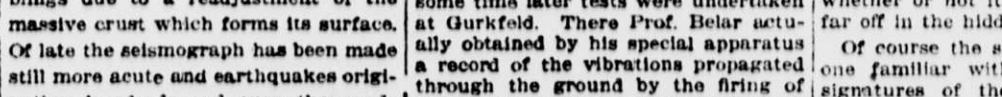
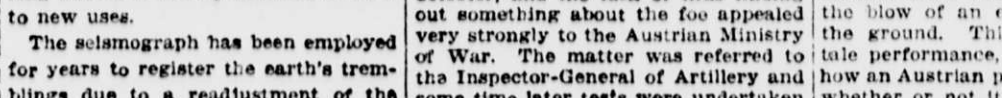
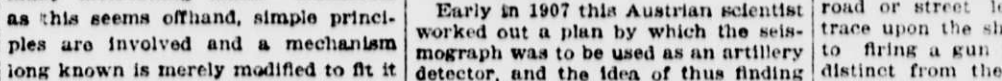
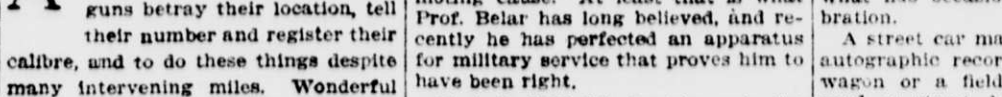
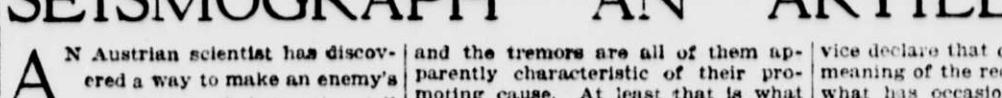
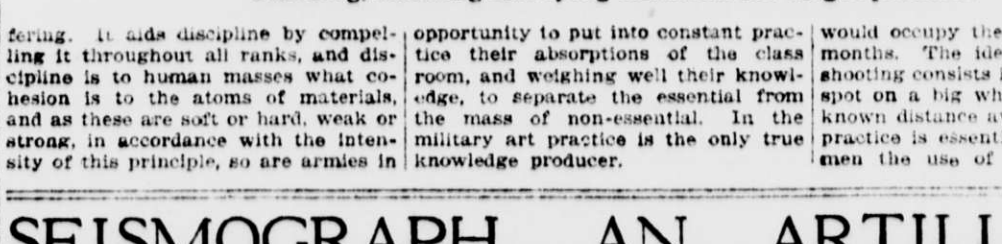
Cavalrymen being trained in rough riding.



Field artillery men at gun drill.



Standing, kneeling and lying manikins for target practice.



Infantry at battle practice supported by machine gun.

